TABULATIONS OF AMBIENT OZONE DATA OBTAINED BY GASP (GLOBAL AIR SAMPLING P. (U) NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CLEVELAND OH LE. WHI JASPESON ET AL. JAN 84 NASA-TM-82742 F/G 4/1 AD-R141 351 1/2 UNCLASSIFIED NL



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Obtained by GASP Airliners;
March 1975 to July 1979

William H. Jasperson Control Data Corporation Minneapolis, Minnesota

and

James D. Holdeman Lewis Research Center Cleveland, Ohio

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January 1984

NASA

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PREFACE

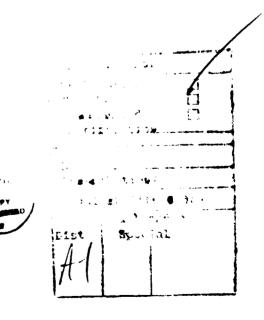
This report contains part of the data, either obtained by the Global Air Sampling Program (GASP) or analyzed from existing ozonesonde measurements since the publication of Federal Aviation Administration (FAA) Report Number FAA-EQ-78-03, "Guidelines for Flight Planning During Periods of High Ozone Occurrence," in 1978.

The FAA has published Advisory Circular 120-38, "Transport Category Airplanes Cabin Ozone Concentrations" dated October 10, 1980. (Copies of this advisory circular may be obtained free of charge from the United States Department of Transportation, Publications Section M-443.1, Washington, D.C. 20590.) In this advisory circular, examples are presented for acceptable (but not the only) means for an air carrier to demonstrate compliance with the maximum permissible cabin ozone concentrations established by Section 121.578 of the Federal Aviation Regulations (FAR). In paragraph 6 and Appendix 2 of the advisory circular, it is stated that any ozone data set used to show compliance must have, as a minium, a resolution on a monthly basis of 2,000 feet in altitude and 5 degrees in latitude.

The data in this report have not been statistically compared with those published in the FAA Report Number FAA-EQ-78-03 to determine whether they are comparable. Hence, use of the data tabulated in this report, to show compliance with Section 121.578 of the FAR, is not acceptable.

Since the data sets have been compiled, however, the FAA would like to disseminate them at this time as information to the scientific community and other interested groups.

John E. Wesler Director of Environment and Energy Federal Aviation Administration



TABULATIONS OF AMBIENT OZONE DATA OBTAINED BY GASP AIRLINERS:

MARCH 1975 TO JULY 1979

William H. Jasperson Control Data Corporation Minneapolis, Minnesota

and

James Ø. Holdeman
National Aeronautics and Space Administration
Lewis Research Center
Cleveland, Ohio

SUMMARY

Tabulations are given of GASP ambient ozone mean, standard deviation, median, 84th percentile, and 98th percentile values, by month, flight level, and geographical region. These data are tabulated to conform to the temporal and spatial resolution required by FAA Advisory Circular 120-38 (monthly by 2000 ft in altitude by 5° in latitude) for climatological data used to show compliance with cabin ozone regulations. In addition seasonal x 10° latitude tabulations are included which are directly comparable to and supersede the interim GASP ambient ozone tabulations given in appendix B of FAA-EE-80-43. Selected probability variations are highlighted to illustrate the spatial and temporal variability of ambient ozone and to compare results from the coarse and fine grid analyses.

INTRODUCTION

From March 1975 to July 1979, the NASA Global Atmospheric Sampling Program (GASP) obtained atmospheric trace-constituents data in the upper troposphere and lower stratosphere using fully automated sampling systems on several Boeing 747 airplanes in routine commercial service (ref. 1). GASP systems were operated on a United Airlines B747, two Pan American World Airways B747's, and a Qantas Airways of Australia B747. Data from the United airliner were over the contiguous United States and between the U.S. West Coast and Hawaii. Global coverage was provided by the Pan American and Qantas airliners on routes between U.S.A. and Europe, U.S.A. and South America, U.S.A. and Japan, U.S.A. and Australia, Australia and Africa, and Australia and Europe. The complete GASP dataset consists of 667 385 trace constituent and/or meteorological observations made on 6945 flights of these airliners between March 11, 1975, and July 12, 1979.

In response to government and public concern because of reports attributing illness of some people on long duration flights to excessive ozone exposure, measurements of ozone concentration in the cabins of two GASP-equipped B747's were made from March 1977 to June 1979. Results from these measurements are reported in references 2 to 7.

In addition to the simultaneous cabin and ambient ozone measurements, GASP acquired over 160 000 ambient ozone observations around the world at airliner cruise altitudes from March 1975 to June 1979. These have added considerably to the climatological data base over what was previously available from ozonesondes, and have provided data in geographical regions where none were previously extant.

Early GASP ambient ozone tabulations and ozonesonde ambient ozone tabulations were published in 1978 (ref. 8). Considerably expanded, but still interim

GASP ambient ozone tabulations were published in reference 9. This report includes all available GASP ambient ozone data, tabulated to conform to the temporal and spatial resolution specified in reference 10, for climatological data used to show compliance with cabin ozone regulations. In addition, tabulations are included for a coarser temporal and spatial grid; these data are directly comparable to and supercede the interim tables in appendix B of reference 9.

INSTRUMENTATION

Ozone was measured on all aircraft by commercially available ultraviolet absorption photometers modified and repackaged to operate in the airborne environment (ref. 11). Readings are continuous, updating every 20 seconds, with data recorded nominally eight times per hour. The instrument range is from 0.003 to 20 ppmv (parts per million by volume). Operational procedures, set up to insure the integrity of the data, included in-flight instrument health checks, instrument calibration techniques, measurement of ozone loss in the GASP air sample inlet line and pressurization system and periodic instrument maintenance.

All flight instruments were calibrated before installation in the aircraft and periodically thereafter using a secondary transfer standard. This standard is a laboratory-type ultraviolet (UV) photometer which was initially calibrated using a 1 percent neutral buffered potassium iodide (KI) method. Later in the GASP program, the standard was calibrated at the NASA Jet Propulsion Laboratory (JPL). This calibration is traceable to the JPL 5-meter UV photometer described in reference 12. The KI calibration was found to be 9 percent higher than the UV photometer calibration. Thus, all published GASP ozone data are 9 percent higher than the JPL calibrations. This is a systematic difference and the tabulated data can be easily corrected if the KI method is determined to be incorrect and another method, such as the UV photometer, is adopted as the standard.

The random error of the GASP ozone measuring system was found to be less than 4 percent of reading or 0.003 ppmv, whichever is greater. A complete description of the ozone measurement system is given in reference 11.

PRESENTATION OF DATA

Availability

All GASP data are available to the public on magnetic computer tape from the National Climatic Center, Federal Building, Asheville, North Carolina 28801. The data tabulated here are from GASP tapes VL0001 to VL0031. These tapes include all data obtained by GASP-equipped aircraft (March 11, 1975, to July 12, 1979). Flight routes and dates, instrumentation, data processing procedures, data tape specifications, and selected analysis are reported in references 13 to 24.

Explanation of Data Tables

In this report ozone amounts are expressed as a volumetric mixing ratio, parts per million by volume (ppmv). Since ozone levels in the literature may be expressed in any of several commonly used units, the inter-relationship among these is given in appendix A (p. 103). Note that several of these relations require that temperature and/or pressure be known or assumed and that the conversion of averaged values will be an approximation because of the non-linearity of the conversion.

The GASP data are summarized by month for 2000-ft altitude increments (from FL290 to FL430) in geographical regions of 5° latitude by 45° longitude in tables I to XII (pp. 4 to 99). The geographical grid used is shown in figure 1 (p. 100). This grid was selected so that regions, or combinations of adjacent regions, coincide with major flight routes as nearly as possible (e.g., contiguous States = 27.5° to 47.5° N, 75° to 120° W; and U.S.A. to Europe = 37.5° to 57.5° N, 15° E to 75° W). For each region the tabulation includes mean, standard deviation, median (50th percentile), 84th percentile, and 98th percentile ozone amounts, in addition to the number of observations. For applications in which a coarser spatial and temporal grid is acceptable, seasonal x 10° latitude tabulations are provided in appendix B (p. 104). Note that, because the number of observations in the tabulated regions is greater here than in tables I to XII, the statistical confidence level is greater in most intervals.

Selected Graphical Presentations

It is well known that ozone levels increase with latitude and altitude, that they are maximum in the spring, and that the probability of encountering high ozone levels follows the same trends (e.g., refs. 2, 6, and 9). These variations are quantified in the tables herein, with selected empirical probability variations highlighted in figures 2 to 5 (pp. 101 and 102). These figures are examples of the types of curves that can readily be plotted from, and that might be appropriate in specific analyses of, the tabulated data.

In figure 2 the variation of the mean ozone mixing ratio with latitude is shown for low, medium, and high cruise altitudes in the spring (part (a)), and for each spring month at flight level 370 (part (b)). The seasonal variation in mean ambient ozone near 45° N is shown in figure 3 for flight levels 370 and 410.

In figure 4 four-point cumulative frequency distributions (cfd's) for the spring have been plotted from the tabulated data for Northern Hemisphere latitudes at flight level 370 (part (a)) and for flight levels 290 to 430 at 40° to 50° N latitude (part (b)). These curves show the fraction of observations (on the ordinate) in which the ozone level exceeded any given ozone level (on the abscissa). For example, at flight level 370 and 40° to 50° N latitude, the probability of encountering ambient ozone greater than 0.3 ppmv would be about 37 percent.

Figure 5 shows the zonal latitude-flight level cross section of the 84th percentile ozone values for spring. The constant mixing ratio contours define regions where the probability is greater than 16 percent that the ozone will exceed the contour value on any independent observation; that is, the probability of encountering ozone above, say 0.2 ppmv, is greater than 16 percent in all regions where the 84th percentile value is greater than 0.2 ppmv. In figure 6, the same data used in figure 5 are crossplotted to show the vertical distributions of the 84th percentile values at selected latitudes.

CONCLUDING REMARKS

Tabulations are given of GASP ambient ozone mean, standard deviation, median, 84th percentile, and 98th percentile values, by month, flight level, and geographical region. These data are tabulated to conform to the temporal and spatial resolution specified in FAA-AC-120-38, and supersede those in appendix B of FAA-EQ-78-03 (ref. 8) and appendix B of FAA-EE-80-45 (ref. 9). Selected probability variations are shown herein to highlight the spatial and temporal variability of ambient ozone and to illustrate and compare the results from the coarse and fine grid analyses.

TABLE I. - GASP AMBIENT OZONE DATA BY LATITUDE FOR JANUARY

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TABLE I. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JANUARY

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TABLE I. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JANUARY

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TABLE I. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JANUARY

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LONG! TUDE

TABLE I. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JANUARY (g) Flight level 410

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LONGI TUDE

TABLE I. - Concluded. GASP AMBIENT OZONE DATA BY LATITME FOR JANUARY (h) Flight level 430

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TABLE II. - GASP AMBIENT OZONE DATA BY LATUTUDE FOR FEBRUARY

(a) Flight level 290

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LONGI TUDE

TABLE II. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR FEBRUARY

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(b) Flight level 310

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FEBRUARY FL 310

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LONGI TUDE

TABLE II. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR FEBRUARY

(c) Flight level 330

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LONG1 TUDE

TABLE II. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR FEBRUARY

(d) Flight level 350

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TABLE II. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR FEBRUARY (e) Flight level 370

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LONGITUDE

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TABLE II. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR FEBRUARY

(f) Flight level 390

	LAT	₹	9	9	95	20	45	4 0	35	30	52	20	15	9	s	0	s	9	15	2	52	8	35	ş	455	
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	N.		784	20	799	280	224 693	634	437	209	192	9.00 9.00 1.00	037	000 84 88	019	8 <u>8</u>	89 80	016	018	019	020	0.044	74			
	MEAN		630	0.4 0.00	560	4604	456	386	236	122	0.00	0.0 0.0 0.0 0.0	<u>20</u>	62	028	33	88 88 20 20 40 40	4 028 024	550	95	88 58	00. 4	960 1.00	. 122		
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LONG! TUDE

TABLE II. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR FEBRUARY (g) Flight level 410

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LONG! TUDE

TABLE II. - Concluded. GASP AMBIENT OZONE DATA BY LATITUDE FOR FEBRUARY (h) Flight level 430

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LONG1 TUDE

TABLE III. - GASP AMBIENT OZONE DATA BY LATITUDE FOR MARCH TABLE III. - GASP AMBIENT OZONE DA

(a) Flight level

(a) Flight level 290

ST. DEV.

CODE:

MARCH FL 290

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LONG1 TUDE

TABLE III. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MARCH

(b) Flight level 310

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LONG! TUDE

TABLE III. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MARCH

TATALAN CONTRACTOR PROGRAMMING

(c) Flight level 330

LONGITUDE

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TABLE III. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MARCH

(d) Flight level 350

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ST. DEV.

MEAN SOZ

CODE:

MARCH FL 350

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LONGITUDE

TABLE III. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MARCH

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TABLE III. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MARCH

(f) Flight level 390

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MAR Fl					656	٠.																				
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LONGITUDE

TABLE III. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MARCH

(g) Flight level 410

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TABLE III. - Concluded. GASP AMBIEHT OZONE DATA BY LATITUDE FOR MARCH (h) Flight level 430

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TABLE IV. - GASP AMBIENT OZONE DATA BY LATITUDE FOR APRIL

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(a) Flight level 290

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TABLE IV. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR APRIL

(b) Flight level 310

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TABLE IV. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR APRIL

(c) Flight level 330

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LONGITUDE

TABLE IV. - Continued. GASP AMBIENT OZOME DATA BY LATITUDE FOR APRIL

(d) Flight level 350

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LONGITUDE

TABLE IV. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR APRIL

(e) Flight level 370

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TABLE IV. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR APRIL

- CARACTOR - WANTED - MANAGED

(f) Flight level 390

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LONG! TUDE

TABLE IV. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR APRIL

(g) Flight level 410

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TABLE IV. - Concluded. GASP AMBIENT OZONE DATA BY LATITUDE FOR APRIL

(h) Flight level 430

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TABLE V. - GASP AMBIENT OZONE DATA BY LATITUDE FOR MAY

(a) Flight level 290

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TABLE V. - Continued. SASP AMBIENT OZONE DATA BY LATITUDE FOR MAY

(b) Flight level 310

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LONG1 TUDE

TABLE V. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MAY

(c) Flight level 330

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MAY FL 330

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LONG! TUDE

TABLE V. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MAY

(d) Flight level 350

MAY FL 350 ST. DEV.

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TABLE V. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MAY

(e) Flight level 370

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TABLE V. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MAY

(f) Flight level 390

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MAY FL 390

TABLE V. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR MAY

(g) Flight level 410

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(h) Flight level 430

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TABLE VI. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JUNE

(b) Flight level 310

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GASP AMBIENT OZONE DATA BY LATITUDE FOR JUNE TABLE VI. - Continued.

(c) Flight level 330

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LONGI TUDE

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TABLE VI. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JUNE

(e) Flight level 370

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ST. DEV.

NEWN 202

CODE:

JUNE FL 370

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TABLE VI. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JUNE

(f) Flight level 390

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GASP AMBIENT OZONE DATA BY LATITUDE FOR JUNE TABLE VI. - Continued.

(g) Flight level 410

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CODE:

JUNE FL 410

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LONG! TUDE

TABLE VI. - Concluded. GASP AMBIENT OZONE DATA BY LATITUDE FOR JUNE

(h) Flight level 430

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TABLE VII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JULY

(b) Flight level 310

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TABLE VII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JULY

(c) Flight level 330

ST. DEV. 84%

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JULY FL 330

TABLE VII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JULY TABLE VII. - Continue

(d) Flight level 350

z % ST. DEV.

SOL SOL

JULY FL 350

LAT	70N	99	09	55	20	45	40	35	30	52	20	15	2	S	0	s	9	15	02	52	30	35	Ş	455	
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LONGI TUDE

TABLE VII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JULY

(e) Flight level 370

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ST. DEV. 847

SODE:

LAT 20N 65

JULY FL 370

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LONGITUDE

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TABLE VII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JULY

AN EXPOSE OF THE SECOND OF

(f) Flight level 390

ST. DEV.

CODE: NEAN

JULY FL 390

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LONGITUDE

88 88 88	TABLE VII Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR JULY (g) Flight level 410 SGR 842 967 FL 410			7 041 250 34 300 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 436 - 486 - 422 - 670 - 623 - 511 - 605 - 684 - 345 - 481 - 595 - 487 - 571 - 679	182 38 460 140 63 413 140 48 480 140 63 430 157 811 374 646 501 566	. 228 . 000 80 .163 140 8 .309 183 111 .283 198 24 .341 .091 16 .280 .159 .280 .246 .434 .998 .346 .400 .541 .770 .481	116 256 374 209 110 78 267 165 79 207 118 96 362 110 2 091 007 6 223 132 132 116 316 333 362 436 467 090 093 106 160 357	. 069 . 041 . 856 . 190 . 147 . 82 . 189 . 103 . 80 . 116 . 274 . 484 . 130 . 244 . 451 . 314 . 1	079 021 14 076 035 11 127 079 23 060 060 114 132 060 170 336 061 54	060 020 020 020 020 020 020 020 020 020	92 020 990 900 900 900 900 900 900 900 9	. 059 . 059 . 054	010 010 010 010 010 010 010 010 010 010	000	9		5		. 049 . 049	. 048 . 022 . 063 . 078	054 16 080 70 076	135 . 053	. 286 . 474	
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TABLE VII. - Concluded. GASP AMBIENT OZONE DATA BY LATITUDE FOR JULY

(h) Flight level 430

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LONG! TUDE

TABLE VIII. - GASP AMBIENT OZONE DATA BY LATITUDE FOR AUGUST

(a) Flight level 290

ST. DEV.

CODE:

AUGUST FL 290

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TABLE VIII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR AUGUST

(b) Flight level 310

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TABLE VIII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR AUGUST (c) Flight level 330

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TABLE VIII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR AUGUST

(d) Flight level 350

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AUGUST FL 350

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TABLE VIII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR AUGUST

(f) Flight level 390

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ST. DEV. 36.7

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CODE:

AUGUST FL 390

TABLE VIII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR AUGUST

(g) Flight level 410

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TABLE VIII. - Concluded. GASP AMBIENT OZONE DATA BY LATITUDE FOR AUGUST

1955 - Second Character Records Records Records

(h) Flight level 430

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GASP AMBIENT OZONE DATA BY LATITUDE FOR AUGUST h) Flight level 430 Al				Н		_	Н	.313		\vdash	-	-	\vdash	_	H		Н		\vdash	H	\dashv	\dashv	Н	Н	_	75N
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LOMG1 TUDE

TABLE IX. - GASP AMBIENT OZONE DATA BY LATITUDE FOR SEPTEMBER

(a) Flight level 290

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TABLE IX. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR SEPTEMBER

(b) Flight level 310

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TABLE IX. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR SEPTEMBER (c) Flight level 330

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TABLE IX. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR SEPTEMBER

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TABLE IX. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR SEPTEMBER

JOHN CONTROL C

(e) Flight level 370

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TABLE IX. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR SEPTEMBER

(f) Flight level 390

SEPTEMBER FL 390

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TABLE IX. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR SEPTEMBER

SECTION SECTION REPORTS FOR SECTION SE

MARKET STATES OF THE STATES OF

(g) Flight level 410

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GASP AMBIENT OZONE DATA BY LATITUDE FOR SEPTEMBER (h) Flight level 430 TABLE IX. - Concluded.

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TABLE X. - GASP AMBIENT OZONE DATA BY LATITUDE FOR OCTOBER

(a) Flight level 290

CODE:

OCTOBER FL 290

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TABLE X. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR OCTOBER (b) Flight level 310

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TABLE X. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR OCTOBER

(c) Flight level 330

ST. DEV.

CODE:

OCTOBER FL 330

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TABLE X. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR OCTOBER

(d) Flight level 350

ST. DEV.

CODE:

OCTOBER FL 350

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GASP AMBIENT OZONE DATA BY LATITUDE FOR OCTOBER TABLE X. - Continued.

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(e) Flight level 370

ST. DEV.

N K

CODE:

OCTOBER FL 370

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LONG1 TUDE

TABLE X. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR OCTOBER

(f) Flight level 390

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TABLE X. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR OCTOBER

(g) Flight level 410

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GASP AMBIENT OZONE DATA BY LATITUDE FOR OCTOBER TABLE X. - Concluded.

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(h) Flight level 430

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TABLE XI. - GASP AMBIENT OZONE DATA BY LATITUDE FOR NOVEMBER (a) Flight level 290

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TABLE XI. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR NOVEMBER

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GASP AMBIENT OZONE DATA BY LATITUDE FOR NOVEMBER TABLE XI. - Continued.

(c) Flight level 330

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TABLE XI. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR NOVEMBER

(d) Flight level 350

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TABLE XI. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR NOVEMBER

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(e) Flight level 370

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TABLE XI. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR NOVEMBER

(f) Flight level 390

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GASP AMBIENT OZONE DATA BY LATITUDE FOR NOVEMBER TABLE XI. - Continued. GASP AMBIENT OZONE DATA BY LATITUD

(9) Flight level 410

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TABLE XI. - Concluded. GASP AMBIENT OZONE DATA BY LATITUDE FOR NOVEMBER

(h) Flight level 430

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TABLE XII. - GASP AMBIENT OZONE DATA BY LATITUDE FOR DECEMBER

(a) Flight level 290

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TABLE XII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR DECEMBER

(b) Flight level 310

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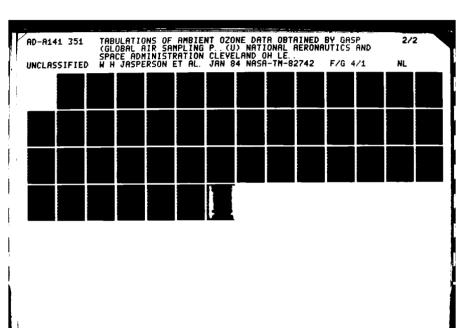
TABLE XII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR DECEMBER

(c) Flight level 330

	LAT	₹	99	9	55	20	45	40	35	30	52	20	22	2	ď	0	S	2	15	02	52	8	32	4	455	
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MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

TABLE XII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR DECEMBER

(d) Flight level 350

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TABLE XII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR DECEMBER

(e) Flight level 370

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TABLE XII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR DECEMBER

(f) Flight level 390

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TABLE XII. - Continued. GASP AMBIENT OZONE DATA BY LATITUDE FOR DECEMBER

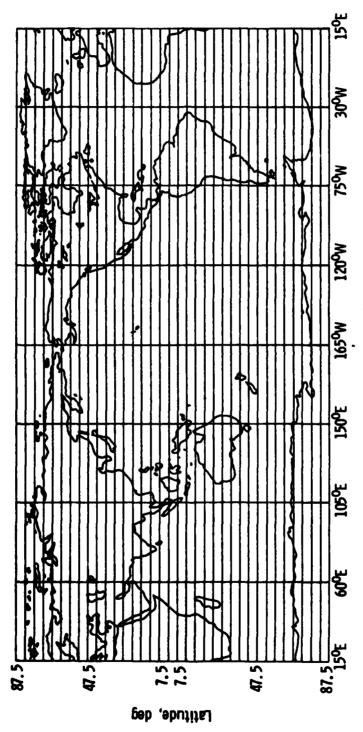
(g) Flight level 410

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TABLE XII. - Concluded. GASP AMBIENT OZONE DATA BY LATITUDE FOR DECEMBER

(h) Flight level 430

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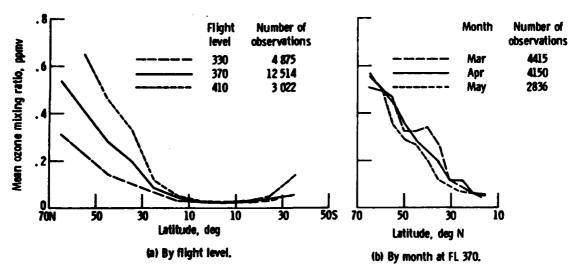


Figure 2. - Variation of mean ambient ozone with latitude in the spring (M-A-M).

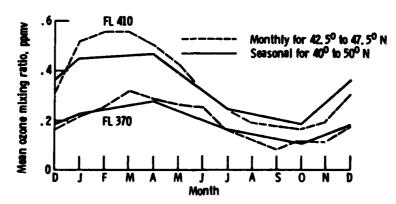


Figure 3. – Seasonal variation of mean ambient ozone near 45° N for flight levels 370 and 410.

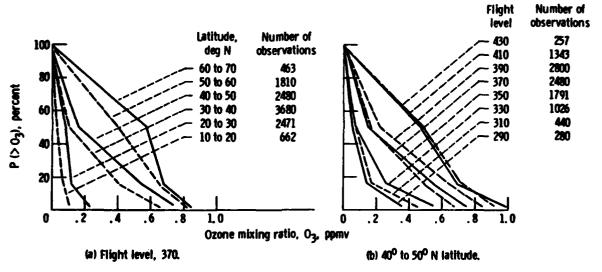


Figure 4. - Ambient ozone cumulative frequency distributions for spring (M-A-M).

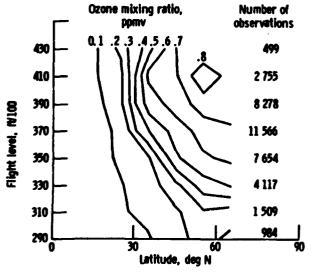


Figure 5. - Northern Hemisphere latitude - flight level cross sections of zonal 84th percentile ozone mixing ratios in the spring.

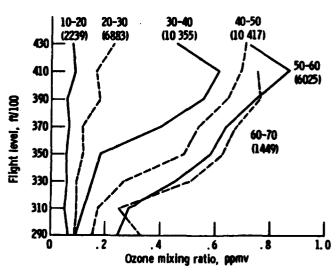


Figure 6. - Vertical profiles of zonal 84th percentile ozone mixing ratios for selected latitudes (deg N). Number of observations for each latitude is given in parentheses.

APPENDIX A

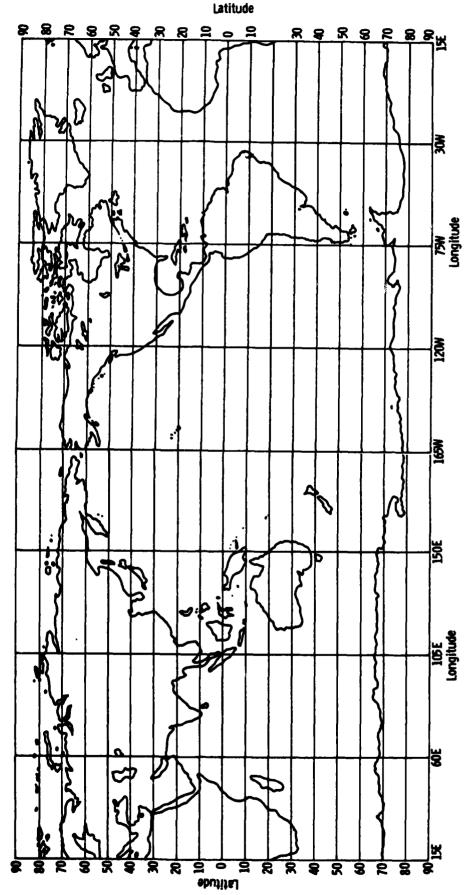
OZONE UNIT CONVERSION FACTORS

[Multiply "From" units by this factor to get "To" units. All temperatures are in K and all pressures in hectopascals (hPa).]

ug/m³ 10-3 cm SPT/km mol/cm³ hPa ug/g 1 0.0467 1.26x10³0 1.73x10-³ 1/P 2.87x10-³ 1/P 21.4 1 2.69x10³¹ 0.037 qT 0.614 T/P 7.97x10-¹¹¹ 3.72x10-¹² 1 1.38x10-¹³ 2.29x10-¹³ 1 348 P/T 16.3 P/T 4.37x10¹² P/T 0.603 P 1 1 578/T 27.0/T 7.25x10¹² P/T 1 1.66/P 1.66 578 P/T 27.0 P/T 7.25x10¹² P/T P 1.66 1.66 1.96x10³ 91.8 2.46x10¹³ 3.40T 5.64 T/P 5.64 T/P	From				To			
1 0.0467 1.26x10 ¹⁰ 1.73x10 ⁻³ T/P 2.87x10 ⁻³ T/P 21.4 1 2.69x10 ¹¹ 0.037 qT 0.614 T/P 348 P/T 16.3 P/T 4.37x10 ¹² P/T 0.603 P 1 578/T 27.0/T 7.25x10 ¹² P/T 1 1.66/P 578 P/T 27.0 P/T 7.25x10 ¹³ P/T P 1.66/P 1.96x10 ³ 91.8 2.46x10 ¹³ 3.40T 5.64 T/P		£#1/6π	10-3 cm SPT/km	mol/cm ³	hP a	6/61	A wdd	ppm v SLE
21.4 1 2.69x10 ¹¹ 0.037 qT 0.614 T/P 7.97x10 ⁻¹¹ 3.72x10 ⁻¹² 1 1.38x10 ⁻¹³ 2.29x10 ⁻¹³ T/P 348 P/T 16.3 P/T 4.37x10 ¹² P/T 0.603 P 1 578/T 27.0/T 7.25x10 ¹² P/T 1 1.66/P 578 P/T 27.0 P/T 7.25x10 ¹² P/T P 1.66 1.96x10 ³ 91.8 2.46x10 ¹³ 3.40T 5.64 T/P	εm/gπ		0.0467	1.26×10 ¹⁰	1.73x10-3 T/P		1.73x10-3 T/P	5.09x10-4
7.97x10 ⁻¹¹ 3.72x10 ⁻¹² 1 1.38x10 ⁻¹³ 2.29x10 ⁻¹³ T/P 348 P/T 16.3 P/T 4.37x10 ¹² P/T 0.603 P 1 578/T 27.0/T 7.25x10 ¹² P/T 1 1.66/P 578 P/T 27.0 P/T 7.25x10 ¹² P/T P 1.66 1.96x10 ³ 91.8 2.46x10 ¹³ 3.40T 5.64 T/P	10-3 cm STP/km	21.4	-	2.69x10 ¹¹	0.037 QT	0.614 T/P	0.0370 T/P	0.0109
348 P/T 16.3 P/T 4.37x10 ¹² P/T 0.603 P 1 578/T 27.0/T 7.25x10 ¹² P/T 1 1.66/P 578 P/T 27.0 P/T 7.25x10 ¹² P/T P 1.66 1.96x10 ³ 91.8 2.46x10 ¹³ 3.40T 5.64 T/P	Molecules	7.97x10-11			1.38x10-13	2.29x10-13 T/P	1.38×10-13 T/P	4.06×10-14
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APPENDIX B
TABULATIONS OF GASP AMBIENT OZONE DATA BY SEASON AND
LATITUDE FOR 2000-FOOT ALTITUDE INTERVALS

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Geographical grid used for appendix B ozone tabulations.

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Tabulations are given of GASP ambient ozone mean, standard deviation, median, 84th percentile, and 98th percentile values, by month, flight level, and geographical region. These data are tabulated to conform to the temporal and spatial resolution required by FAA Advisory Circular 120-38 (monthly by 2000 ft in altitude by 5°0 in latitude) for climatological data used to show compliance with cabin ozone regulations. In addition seasonal x 10°0 latitude tabulations are included which are directly comparable to and supersede the interim GASP ambient ozone tabulations given in appendix B of FAA-EE-80-43 (NASA TM-81528). Selected probability variations are highlighted to illustrate the spatial and temporal variability of ambient ozone and to compare results from the coarse and fine grid analyses.				
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